

AMENDMENTS TO THE CLAIMS

This Listing of Claims will replace all prior versions, and listings of claims in the

Claim 1. (Previously presented) An isolated polypeptide consisting of the amino acid sequence set forth in SEQ ID NO: 3 which functions as a receptor for motilin.

Claim 2. (Canceled)

Claim 3. (Canceled)

Claim 4. (Previously presented) An isolated polypeptide consisting of the amino acid sequence encoded by the nucleotide sequence set forth in SEQ ID NO: 2 which functions as a receptor for motilin.

Claim 5. (Canceled)

Claim 6. (Canceled)

Claim 7. (Canceled)

Claim 8. (Currently amended) A method for determining whether a test compound is capable of agonizing or antagonizing motilin binding comprising:

- (a) transfecting indicator cells with an expression vector ~~the set forth in consisting of the nucleotide sequence set forth in SEQ ID NO: 1 or SEQ ID NO: 2~~ comprising a nucleic acid encoding a polypeptide consisting of the amino acid sequence set forth in SEQ ID NO: 3 which functions as a receptor for motilin;
- (b) exposing the indicator cells to the test compound in the presence of detectably labeled motilin;
- (c) measuring the amount of motilin binding to the indicator cells;
- (d) comparing the amount of motilin binding to the indicator cells with the amount of motilin binding to cells exposed to the detectably-labeled motilin in the absence of a test compound;

wherein if the amount of motilin binding to the indicator cells in the presence of the test compound differs from the amount of motilin binding in the absence of the test compound, then the test compound is capable of agonizing or antagonizing ~~to~~ motilin binding.

Claim 9. (Canceled)

Claim 10. (Canceled)

Claim 11. (Canceled)

Claim 12. (Previously presented) An isolated cDNA encoding a polypeptide that functions as a human motilin receptor wherein the cDNA consists of a nucleic acid isolated from a host cell transfected with an expression vector comprising SEQ ID NO:1.

Claim 13. (Currently amended) An expression vector comprising a ~~nucleic acid~~ cDNA according to Claim ~~40~~ 12.

Claim 14. (Canceled)

Claim 15. (Currently amended) A recombinant host cell transfected with a vector according to claim ~~44~~ 13.

Claim 16. (Previously presented) A recombinant host cell expressing a human motilin receptor, wherein said motilin receptor consists of an amino acid sequence selected from the group consisting of SEQ ID NO: 3 and SEQ ID NO: 5.